

FORM-PTO-1390 (Rev. 12-29-99)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		032292-026	
INTERNATIONAL APPLICATION NO. PCT/NO99/00356		INTERNATIONAL FILING DATE 29 November 1999	U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) UNASSIGNED 09/857021
TITLE OF INVENTION ARRANGEMENT IN A NETWORK, ESPECIALLY FOR LARGE DIGITAL ENHANCED CORDLESS TELECOMMUNICATIONS (DECT) SYSTEMS		PRIORITY DATE CLAIMED 1 December 1998	
APPLICANT(S) FOR DO/EO/US Bjørn Magne DYBEDOKKEN and Sverre TØNNESLAND			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and the PCT Articles 22 and 39(1).</p> <p>4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) </p> <p>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. </p> <p>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>			
<p>Items 11. to 16. below concern other document(s) or information included:</p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment.</p> <p><input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</p> <p>14. <input type="checkbox"/> A substitute specification.</p> <p>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>16. <input checked="" type="checkbox"/> Other items or information:</p> <p style="text-align: center;">International Preliminary Examination Report and Unexecuted Declaration</p>			

U.S. APPLICATION NO. (If known, see 37 CFR 1.50) UNASSIGNED	097857021	INTERNATIONAL APPLICATION NO. PCT/NO99/00356	ATTORNEY'S DOCKET NUMBER 032292-026
17. <input checked="" type="checkbox"/> The following fees are submitted:		CALCULATIONS	PTO USE ONLY
Basic National Fee (37 CFR 1.492(a)(1)-(5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$1,000.00 (960) International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$860.00 (970) International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$710.00 (958) International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$690.00 (956) International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00 (962)			
ENTER APPROPRIATE BASIC FEE AMOUNT =		\$ 860.00	
SurchARGE of \$130.00 (154) for furnishing the oath or declaration later than 20 <input type="checkbox"/> 30 <input type="checkbox"/> months from the earliest claimed priority date (37 CFR 1.492(e)). Total Claims 8 -20 = -0- X\$18.00 (966) \$ -0- Independent Claims 1 -3 = -0- X\$80.00 (964) \$ -0- Multiple dependent claim(s) (if applicable) + \$270.00 (968) \$ -0-		\$ -0-	
TOTAL OF ABOVE CALCULATIONS =		\$	
Reduction for 1/2 for filing by small entity, if applicable (see below).		\$ -0-	-
SUBTOTAL =		\$ 860.00	
Processing fee of \$130.00 (156) for furnishing the English translation later than 20 <input type="checkbox"/> 30 <input type="checkbox"/> months from the earliest claimed priority date (37 CFR 1.492(f)). +		\$ -0-	
TOTAL NATIONAL FEE =		\$ 860.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 (581) per property +		\$ -0-	
TOTAL FEES ENCLOSED =		\$ 860.00	
		Amount to be: refunded \$	
		charged \$	
a. <input type="checkbox"/> Small entity status is hereby claimed. b. <input checked="" type="checkbox"/> A check in the amount of \$ <u>860.00</u> to cover the above fees is enclosed. c. <input type="checkbox"/> Please charge my Deposit Account No. <u>02-4800</u> in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. d. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>02-4800</u> . A duplicate copy of this sheet is enclosed.			
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.			
SEND ALL CORRESPONDENCE TO: Ronald L. Grudziecki, Esq. BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. Box 1404 Alexandria, Virginia 22313-1404 (703) 836-6620			
 SIGNATURE Kenneth B. Leffler NAME 36,075 REGISTRATION NUMBER			

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Bjørn Magne DYBEDOKKEN et al.) Group Art Unit: UNASSIGNED
Application No.: UNASSIGNED) Examiner: UNASSIGNED
Filed: May 31, 2001)
For: ARRANGEMENT IN A NETWORK,)
ESPECIALLY FOR LARGE DIGITAL)
ENHANCED CORDLESS TELECOM-)
MUNICATIONS (DECT) SYSTEMS)

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE CLAIMS:

Please replace claims 1-8 as follows:

1. (Amended) Arrangement in large Digital Enhanced Cordless Telecommunication (DECT) systems or similar systems, including several Fixed Parts (FP) connected to the same Local Network (LNW), each of said FP associated with one or more Radio Fixed Parts (RFP), comprising: means for assigning a unique Secondary Access Rights Identity (SARI) to the LNW when the first FP is connected, means within the LNW for automatically assigning a unique Primary Access Rights Identity (PARI) to each Fixed Part (FP) by deriving said PARI from a combination of an Equipment Installer's Code (EIC) included in said SARI and one or more generated bits, means within each Fixed Part (FP) for managing the identities of associated Radio Fixed Parts/base stations (RFP) each to have a Radio Fixed Part Number (RPN) that is unique with the Fixed Part (FP).

2. (Amended) Arrangement as claimed in claim 1, further comprising means within said LNW for selecting new Access Rights Identity (ARI) when a new fixed part (FP) is connected.

3. (Amended) Arrangement as claimed in claim 1, further comprising means within the FP for selecting a new base station/Radio Fixed Part Identity when a new base station/Radio Fixed Part is connected.

4. (Amended) Arrangement as claimed in claim 1, wherein said SARI is provided to the network operator by an Equipment Installer, and wherein said Equipment Installer or network operator manually enters said SARI into the network.

5. (Amended) Arrangement as claimed in claim 1, further comprising means for distributing said SARI to all the FPs in the network and for transmitting to all RFPs.

6. (Amended) Arrangement as claimed in claim 1, further comprising means for recalculating and distributing the Handover Length Indicator (HLI) to all FPs in the LNW when a new FP is added or removed.

7. (Amended) Arrangement as claimed in claim 1, wherein the RPN for each RFP is handled by the individual FPs, and is automatically given to the RFPs when they are connected.

8. (Amended) Arrangement as claimed in claim 1, wherein the arrangement is implemented as a "plug-and-play" concept.

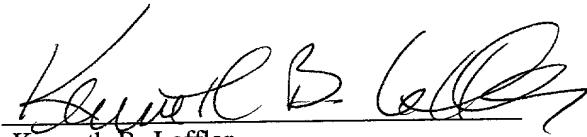
REMARKS

The above changes to the claims have been made to delete multiple dependency of the claims, to round out the scope of patent protection being sought, and generally to place the claims in better condition for examination on the merits.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By:


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Date: May 31, 2001

Attachment to Amendment dated May 31, 2001

Marked-up claims 1-8

1. (Amended) Arrangement in large Digital Enhanced Cordless Telecommunication (DECT) systems or similar systems, including several Fixed Parts (FP) connected to the same Local Network (LNW), each of said FP associated with one or more Radio Fixed Parts (RFP),
[characterized in] comprising: means for assigning a unique Secondary Access Rights Identity (SARI) to the LNW when the first FP is connected, means within the LNW for automatically assigning a unique Primary Access Rights Identity (PARI) to each Fixed Part (FP) by deriving said PARI from a combination of an Equipment Installer's Code (EIC) included in said SARI and one or more generated bits, means within each Fixed Part (FP) for managing the identities of associated Radio Fixed Parts/base stations (RFP) each to have a Radio Fixed Part Number (RPN) that is unique with the Fixed Part (FP).
2. (Amended) Arrangement as claimed in claim 1, [characterized in] further comprising means within said LNW for selecting new Access Rights Identity (ARI) when a new fixed part (FP) is connected.
3. (Amended) Arrangement as claimed in claim 1, [or 2, characterized in] further comprising means within the FP for selecting a new base station/Radio Fixed Part Identity when a new base station/Radio Fixed Part is connected.
4. (Amended) Arrangement as claimed in claim 1, wherein [any of the preceding claims, characterized in that] said SARI is provided to the network operator by an Equipment Installer, and [that] wherein said Equipment Installer or network operator manually enters said SARI into the network.
5. (Amended) Arrangement as claimed in claim 1, further comprising [any of the preceding claims, characterized in] means for distributing said SARI to all the FPs in the network and for transmitting to all RFPs.

6. (Amended) Arrangement as claimed in claim 1, further comprising [any of the preceding claims, characterized in] means for recalculating and distributing the Handover Length Indicator (HLI) to all FPs in the LNW when a new FP is added or removed.

7. (Amended) Arrangement as claimed in claim 1, wherein [any of the preceding claims, characterized in that] the RPN for each RFP is handled by the individual FPs, and is automatically given to the RFPs when they are connected.

8. (Amended) Arrangement as claimed in claim 1, wherein [any of the preceding claims, characterized in that] the arrangement is implemented as a "plug-and-play" concept.

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JC18 Rec'd PCT/PTO 31 MAY 2001

ARRANGEMENT IN A NETWORK, ESPECIALLY FOR LARGE DIGITAL ENHANCED CORDLESS TELECOMMUNICATIONS (DECT) SYSTEMS

Field of the invention

The present invention relates to an arrangement in a
5 network, especially for large Digital Enhanced Cordless
Telecommunications (DECT) Systems, i.e. systems with
several fixed parts connected to the same local network.

Technical background

The problem area

10 In Figure 1 there is illustrated a DECT system with several Fixed Parts (FP) connected to the same local network (LNW). An FP contains all the elements in a DECT network between the local network (LNW) and the DECT air interface.

15 Each FP has an ID that is unique within the network, the
Primary Access Rights Identity, PARI.

20 Each Radio Fixed Part (RFP, base station) has a Radio Fixed Part Number, RPN that is unique within the fixed part that it is connected to. The base stations transmit a Radio Fixed Part Identity, RFPI, on the air interface. The RFPI is a combination of the PARI, the RPN and an extension bit E, and identifies the RFP and the FP that the RFP is connected to. The RFPI is used by the *Portable Parts*, PPs (handsets), to determine if they have access to the network.

25 In addition to the RFPI, the RFP may transmit a Secondary Access Rights Identity, SARI, which may also be used to give the PPs access to the network.

The layout and rules for use of ARIs and RFPI is defined in (1).

The structure of ARI and RFPI for private networks, class B, is shown in Figure 2. The elements are defined as follows:

E Extension bit. Indicates if an SARI is available or not. Not relevant for this document.

ARC Access Rights Class

Shows the type of access to a DECT network, such as residential, private or public.

EIC Equipment Installer's code

This a code that is supplied by ETSI identifies the installer of the DECT system, e.g. Ericsson.

FPN Fixed Part Number

A 12-bit number that identifies the fixed part. The number is unique to each FP within a network.

RPN Radio Fixed Part Number

An 8-bit number that identifies the radio fixed part. The number is unique to each RFP within an FP.

The problem that this Invention Disclosure discusses is that of handling the different parameters such as PARI, RPN and HLI, in a network with many FP's. This applies both to the network owner, who must keep track of a number of parameters in his own network, and to the Equipment Installer (e.g. Ericsson) who must keep a data base of parameters for all the fixed parts sold.

If an FP or an RFP is to be removed, or if an FP or an RFP is added to the network, the FP or RFP must be assigned a PARI or an RPN. There are also other parameters that must be adapted to handle the new or removed FP or RFP, such as 5 HLI. The Equipment Installer must find a free identity (ARI) for the customer (network owner), and the customer must then assign the value to the network.

This manual administration of parameters requires extensive bookkeeping and is therefore time consuming and costly.

10 Known solution

The use of DECT identities is described in detail in ETSI standards (1). ETSI does not, however, say anything about how the dealer of the system shall select and maintain the parameters.

15 Problems with known solutions

Administration of identities for DECT systems is time consuming and costly both for the manufacturer and the operator of the equipment. Anything that can reduce the complexity of operation is therefore desirable.

20 The problems with handling DECT identities can be separated in three areas:

1 **Manufacturer:** Assigning ARI values of the DECT equipment that is sold, and maintaining a database of these with reference to whom the equipment is sold.

25 This is especially complex if the equipment is sold via retailers.

2 **Network owner:** More work to install new fixed parts, because the PARIs must be known and entered into the system manually. One cannot simply connect the hardware and start using it.

5 3 **Security (Network owner):** It is desirable to have as many of the (most significant) bits in the ARI for the different FPs in a network equal, to reduce the risk of illegal access. This decides the length of the HLI, and to maintain as high a security level as possible, the value of the HLI should be small. If FPs, with a different EIC than the existing FPs in the network, are added, the HLI will be large, and illegal access to the system will be easier.

Further prior art

10 15 From US 5,077,790 (D'Amico et al.) there is known a method for registration of a portable unit, that may be used in a communication system, comprising a network controller having a database for storing portable identification numbers. However, this prior art is silent about how to 20 extend a telecommunication system having several fixed parts, in a safe and expedient manner.

US 5,572,574 relates to a method of on-air registration of a cordless telephone handset with a base station. Consequently, also this publication is silent about how to 25 install new fixed parts in a network.

WO 98/28937 relates to an arrangement for location area management in a DECT system, in which a central unity connected to the fixed parts of a local area (LA) manages the identities within the LA. However, this solution may 30 require manual entry of data identities for several times

after initialisation, e.g. when the handsets are to roam between systems.

Objects of the invention

An object of the present invention is to provide an arrangement whereby the problems related to known solutions are eliminated.

Another object of the present invention is to provide an arrangement whereby the dealer of the system can select and maintain the related parameters in a far more expedient manner.

Still another object of the present invention is to provide an arrangement whereby a network owner can install new fixed parts in a more time-saving and appropriate manner.

Yet another object of the present invention is to provide an arrangement whereby the network owner can maintain a high and secure level in order to reduce the risk of illegal access.

Summary of the invention

These objects are achieved in an arrangement as stated in the preamble, which according to the present invention is characterised by the features as stated in the characterising clause of the enclosed patent claim 1.

In other words, according to the present invention there is given a solution of automatically generating the needed identities.

Further features and advantages of the present invention will appear from the following description taken in conjunction with the enclosed drawings, as well as from the further enclosed patent claims.

5 Brief disclosure of the drawings

Figure 1 is a schematical diagram illustrating a DECT system with several fixed parts, in which system the present invention can find its application.

10 Figure 2 is a schematical diagram illustrating the layout of ARI and RFPI class B, private access.

Detailed description of embodiments

Reference is made to Figure 1, wherein is illustrated a Digital Enhanced Cordless Telecommunications System, DECT. This system comprises several fixed parts FP connected to the same local network LNW. An FP contains all the elements 15 in a DECT network between the local network LNW and the DECT air interface.

Each FP has an ID that is unique within the network, the Primary Access Rights Identity, PARI.

20 Consequently, each FP connected to a LNW must have its own, unique PARI within the network.

The local network will manage the PARI identities such that each FP has its own unique PARI. The FP will manage the identities of the base stations, such that each base 25 station has an RPN that is unique within the fixed part. The local network will automatically select a new ARI when

a new FP is connected. The FP will select a new base station identity when a new base station is connected.

When the first FP is connected to the network, the network must be given an SARI. The value of the SARI is given to

5 the network operator by an Equipment installer (ref. EIC), and is entered into the network manually. The value of the SARI is unique to the network, and is distributed to all the FPs in the network, and is transmitted on all RFPs.

10 The PARI for each FP is calculated using the EIC-part of the SARI, see Figure 2. The HLI, which is common to the LNW, is recalculated and distributed to all FPs in the LNW when a new FP is added or removed.

The RPN for each RFP is handled by the individual FPs, and is automatically given to the RFPs when they are connected.

15 Advantages

The automatic generation of parameters will reduce service and maintenance cost both for the manufacturer/distributor and the operator of cordless telecommunication systems. This creates a concept of "plug-and-play".

20 Assigning similar PARI values to all FPs in a system ensures that the value of the HLI will be small. This reduces the risk that other users will attempt (illegal) access to the network.

Broadening

25 May be applicable to other cordless and cellular systems.

GLOSSARY AND ACRONYMS**Glossary****Fixed Part**

A physical grouping that contains all the elements in the DECT network between the local network and the DECT air interface.

Equipment Installer

The organisation that is responsible for installing the DECT equipment, usually the same as the manufacturer, e.g. Ericsson.

Local Network

A telecommunication network capable of offering local telecommunication services. In this document, the term "network" is used in the same meaning as "Local Network".

Portable Part

A physical grouping that contains all the elements between the user and the DECT air interface. Usually the cordless telephone handset.

Radio fixed part

A physical sub-group of an FP that contains all the radio endpoints that are connected to a single system of antennas (=radio base station)

Acronyms

ARI	Access Rights Identity
DECT	Digital Enhanced Cordless Telecommunications
EIC	Equipment Installer's Code
5 FP	Fixed Part
HLI	Handover Length Indicator
LNW	Local Network
	..
PARI	Primary Access Rights Identity
PARK	Portable Access Rights Key
10 PP	Portable Part
RFP	Radio Fixed Part
RPN	Radio fixed Part Number
SARI	Secondary Access Rights Identity

Reference documents

1. ETS300175-6 Second Edition

Radio Equipment and systems (RES) ;

Digital Enhanced Cordless Telecommunications (DECT) ;

5 Common Interface (CI) ;

Part 6: Identities and addressing

09857024 082200

09/857021 NO 009900356

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JC18 Rec'd PCT/PTO 31 MAY 2001

P a t e n t c l a i m s

1. Arrangement in large Digital Enhanced Cordless Telecommunication (DECT) systems or similar systems, including several Fixed Parts (FP) connected to the same

5 Local Network (LNW), each of said FP associated with one or more Radio Fixed Parts (RFP),

characterized in means for assigning a unique Secondary Access Rights Identity (SARI) to the LNW when the first FP is connected, means within the LNW for

10 automatically assigning a unique Primary Access Rights Identity (PARI) to each Fixed Part (FP) by deriving said PARI from a combination of an Equipment Installer's Code (EIC) included in said SARI and one or more generated bits,

means within each Fixed Part (FP) for managing the

15 identities of associated Radio Fixed Parts/base stations (RFP) each to have a Radio Fixed Part Number (RPN) that is unique with the Fixed Part (FP).

2. Arrangement as claimed in claim 1,

20 characterized in means within said LNW for selecting new Access Rights Identity (ARI) when a new fixed part (FP) is connected.

3. Arrangement as claimed in claim 1 or 2,

25 characterized in means within the FP for selecting a new base station/Radio Fixed Part Identity when a new base station/Radio Fixed Part is connected.

4. Arrangement as claimed in any of the preceding claims,

30 characterized in that said SARI is provided to the network operator by an Equipment Installer, and that said Equipment Installer or network operator manually enters said SARI into the network.

5. Arrangement as claimed in any of the preceding claims, characterized in means for distributing said SARI to all the FPs in the network and for transmitting to all RFPs.

5

6. Arrangement as claimed in any of the preceding claims, characterized in means for recalculating and distributing the Handover Length Indicator (HLI) to all FPs in the LNW when a new FP is added or removed.

10

7. Arrangement as claimed in any of the preceding claims, characterized in that the RPN for each RFP is handled by the individual FPs, and is automatically given to the RFPs when they are connected.

15

8. Arrangement as claimed in any of the preceding claims, characterized in that the arrangement is implemented as a "plug-and-play" concept.

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY
 (Includes Reference to Provisional and PCT International Applications)

 Attorney's Docket No.
 032292-026

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;
 I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ARRANGEMENT IN A NETWORK, ESPECIALLY FOR LARGE DIGITAL ENHANCED CORDLESS
TELECOMMUNICATIONS (DECT) SYSTEMS

the specification of which (check only one item below):

is attached hereto.
 was filed as United States application

Number _____
 on _____
 and was amended
 on _____ (if applicable).

was filed as PCT international application

Number PCT/NO99/00356
 on 29 November 1999
 and was amended
 on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a)-(e) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. §119:

COUNTRY (if PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. §119
NORWAY	19985608	1 December 1998	<u>X</u> Yes <u> </u> No
			<u> </u> Yes <u> </u> No
			<u> </u> Yes <u> </u> No
			<u> </u> Yes <u> </u> No
			<u> </u> Yes <u> </u> No

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

 (Application Number)

 (Filing Date)

 (Application Number)

 (Filing Date)

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (CONT'D)
(includes Reference to Provisional and PCT International Applications)

Attorney's Docket No.

I hereby claim the benefit under Title 35, United States Code, §120 of any United States applications(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Office all information known to me to be material to the patentability as defined in Title 37, Code of Federal Regulations §1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. §120:

U.S. APPLICATIONS		STATUS (check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED

PCT APPLICATIONS DESIGNATING THE U.S.

PCT APPLICATION NO.	PCT FILING DATE	U.S. APPLICATION NUMBERS ASSIGNED (if any)		

I hereby appoint the following attorneys and agent(s) to prosecute said application and to transact all business in the Patent and Trademark Office connected therewith and to file, prosecute and to transact all business in connection with international applications directed to said invention:

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Robert S. Sweeney	19,885
Platon N. Mandros	22,124
Benton S. Duffett, Jr.	22,030
Norman H. Stepno	22,716
Ronald L. Grudzicki	24,970
Frederick G. Michaud, Jr.	26,003
Alan E. Kopecki	25,813
Regis E. Sluter	26,999
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Richard J. McGrath
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Michael G. Savage
Gerald F. Swiss
Charles F. Wieland III

30,505
26,057
30,427
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30,113
33,096

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Todd R. Walters	34,040
Ronni S. Jillions	31,979
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Allen R. Baum	36,086
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (CONT'D) (Includes Reference to Provisional and PCT International Applications)		Attorney's Docket No. 032292-026
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FULL NAME OF FIFTH JOINT INVENTOR, IF ANY		SIGNATURE DATE
RESIDENCE		CITIZENSHIP
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